



UNIVERSITY EXAMINATIONS

FIRST SEMESTER 2025/2026 ACADEMIC YEAR

**FIRST YEAR EXAMINATION FOR THE BACHELOR OF
UNDERGRADUATE DEGREES**

COMP 111: INTRODUCTION TO COMPUTER APPLICATION

STREAM: R

TIME: 2 HRS

DAY: MONDAY [11.30 – 13.30 P.M]

DATE: 02/02/2026

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

Instructions: Answer question ONE (compulsory) and any other TWO

QUESTION ONE (30 MARKS)

- a) Define what a workstation is and how it differs from a PC. (3 Marks)
- b) Describe two real-world applications of computers in the military sector. (4 Marks)
- c) Explain the concept of “non-volatile memory”. Give an example. (3 Marks)
- d) Describe the functions of the ALU (Arithmetic Logic Unit). (4 Marks)
- e) Explain the term “multi-user computer system” and give a type of computer that supports many users simultaneously. (4 Marks)
- f) What is the purpose of microprocessor-based systems in the fourth generation of computers? (3 Marks)
- g) Discuss at least two areas of engineering design where computers are used. (4 Marks)
- h) What is meant by the control unit of CPU, and what are its functions? (4 Marks)
- i) What are the features of application software? (3 Marks)

QUESTION TWO (20 MARKS)

- a) With the aid of a well labeled diagram, describe the basic operation of a computer (8 Marks)
- b) Describe **THREE** types of ROM (6 Marks)
- c) Explain **THREE** functions of an operating system (6 Marks)

QUESTION THREE (20 MARKS)

- a) With the aid of a well labeled diagram, describe how a ring network topology works (6 Marks)
- b) Discuss any **FOUR** qualities of good information (6 Marks)
- c) Distinguish between impact and non impact printers, and give one example of each (6 Marks)
- d) What is the difference between a file and a folder? (2 Marks)

QUESTION FOUR (20 MARKS)

- a) Describe **THREE** functions of an operating system (6 Marks)
- b) What is the importance of main memory in a computer? (6 Marks)
- c) Discuss **FOUR** social implications of the internet (8 Marks)

QUESTION FIVE (20 MARKS)

- a) Briefly describe how the internet works (6 Marks)
- b) Discuss the classification of computers by how they represent numbers (6 Marks)
- c) Describe **THREE** ways in which malware can be transmitted (6 Marks)
- d) Distinguish between left-clicking and right-clicking on a mouse (2 Marks)